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|--|-------------------------------|-------------------|
| IN THE UNITED STATES PATENT AND TRADEMARK OFFICE | <i>Application Number</i> | 09/225,245 |
| | <i>Filing Date</i> | January 4, 1999 |
| | <i>First Named Inventor</i> | Naohito TOMOE |
| | <i>Group Art Unit</i> | 2685 |
| | <i>Examiner Name</i> | Quochien B. Vuong |
| | <i>Attorney Docket Number</i> | 1137-761 |
| <i>Title of the Invention: DEVICE FOR AND METHOD OF DETECTING INTERFERENCE WAVES</i> | | |

RESPONSE TO OFFICE ACTION

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Dear Sir:

In response to the first Office action mailed June 3, 2004, a two-month extension of time being requested until November 3, 2004, the following remarks are respectfully submitted.

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ROTHWELL, FIGG, ERNST & MANBECK

1425 K Street, N.W.
Suite 800
Washington, D.C. 20005

Telephone: (202)783-6040
Facsimile: (202)783-6031

FACSIMILE TRANSMITTAL SHEET

DATE: 3 November 2004

TO: Examiner Quochien B. Vuong
Tech Center 2685

FAX NO: 703-872-9306

FROM: Vincent M. DeLuca

RE: Serial No. 09/225,245
Filed: January 4, 1999
Inventor: Alan B. COLLISON et al.
Our Ref: 2994-103

THIS MESSAGE IS INTENDED FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENCY RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICES. THANK YOU.

Number of Pages Including This Transmittal Sheet: 7

MESSAGE, IF ANY:

Response to Office action filed herewith.

| | | | | |
|---|------|------------------------|------------------|------|
| FEE TRANSMITTAL for FY 2005 (Large Entity) | | Complete if Known | | |
| | | Application Number | 09/225,245 | |
| | | Filing Date | January 4, 1999 | |
| | | First Named Inventor | Naohito TOMOE | |
| | | Group Art Unit | 2685 | |
| | | Examiner Name | Quachien Vuong | |
| | | Attorney Docket Number | 1137-761 | |
| Customer No. | | 06449 | | |
| Total Amount of Payment | (\$) | 1345.00 | Confirmation No. | 2691 |

METHOD OF PAYMENT (check one)

1. The Commissioner is hereby authorized to charge additional fees and credit any overpayment to Deposit Account Number 02-2135 in the name of Rothwell, Figg, Ernst & Manbeck

Charge any Additional Fee Required Under 37 CFR 1.16 and 1.17

Applicant claims small entity status

2. Payment Enclosed

- Check
- Credit Card

FEES CALCULATION**1. FILING FEE**

| Fee | Fee | Fee Description | Fee Paid |
|------|-----|------------------------|----------|
| Code | \$ | | |
| 1001 | 770 | Utility Filing Fee | [] |
| 1002 | 340 | Design Filing Fee | [] |
| 1003 | 530 | Plant Filing Fee | [] |
| 1004 | 770 | Reissue Filing Fee | [] |
| 1005 | 160 | Provisional Filing Fee | [] |

SUBTOTAL \$

2. CLAIMS

| Total Claims | Independent | Extra Claims | Fee | Fee Paid |
|---------------------------|-------------|--------------|-----------|----------|
| [] | - 20** | = [] x | \$18 | [] |
| Claims | [] | - 3** | = [] x | 86 = [] |
| Multiple Dependent Claims | [] | + | 290 = [] | |

**or number previously paid, if greater.

SUBTOTAL \$

FEES CALCULATION (continued)**3. ADDITIONAL FEES**

| Fee | Fee | Fee Description | Fee Paid |
|------------------------------------|--------|--|--------------------------|
| Code | | | |
| 1051 | 130 | Surcharge - late filing fee or oath | [] |
| 1052 | 50 | Surcharge - late provisional filing fee or cover sheet | [] |
| 1053 | 130 | Non-English specification | [] |
| 1812 | 2,520 | For filing a request for reexamination | [] |
| 1804 | 920 | Requesting publication of SIR prior to Examiner action | [] |
| 1804 | 1,840* | Requesting publication of SIR after Examiner action | [] |
| 1251 | 110 | Extension for reply within first month | [] |
| 1252 | 430 | Extension for reply within second month | 430 [] |
| 1253 | 950 | Extension for reply within third month | [] |
| 1254 | 1,480 | Extension for reply within fourth month | [] |
| 1255 | 2,010 | Extension for reply within fifth month | [] |
| 1401 | 330 | Notice of Appeal | [] |
| 1402 | 330 | Filing a brief in support of an appeal | [] |
| 1403 | 290 | Request for Oral Hearing | [] |
| 1451 | 1,510 | Petition to institute a public use proceeding | [] |
| 1452 | 110 | Petition to revive -unavoldable | [] |
| 1453 | 1,330 | Petition to revive - unintentional | [] |
| 1501 | 1,330 | Utility issue fee (or reissue) | [] |
| 1502 | 480 | Design issue fee | [] |
| 1503 | 640 | Plant issue fee | [] |
| 1460 | 130 | Petitions to the Commissioner | [] |
| 1807 | 50 | Processing fee under 37 CFR 1.17(q) | [] |
| 1806 | 180 | Submission of Information Disclosure Statement | [] |
| 8021 | 40 | Recording each patent assignment per property (times number of properties) | [] |
| 1809 | 770 | Filing a submission after final rejection (37 CFR 1.129(a)) | [] |
| 1810 | 770 | For each additional invention to be examined (37 CFR 1.129(b)) | [] |
| 1801 | 770 | Request for Continued Examination (RCE) | [] |
| 1802 | 900 | Request for expedited examination of a design application | [] |
| 1504 | 300 | Publication fee for early, voluntary, or normal publication | [] |
| 1505 | 300 | Publication fee for republication | [] |
| 1455 | 200 | Filing application for patent term adjustment | [] |
| 1456 | 400 | Request for reinstatement of term reduced | [] |
| Other fee (specify): | | | |
| * Reduced by Basic Filing Fee Paid | | | SUBTOTAL \$430.00 |

| | | | |
|----------------------|------------------------------------|------------------------|-------------------|
| SUBMITTED BY | | Complete if applicable | |
| NAME AND REG. NUMBER | Vincent M. DeLuca, Reg. No. 32,408 | | |
| SIGNATURE | Vincent M. DeLuca | DATE | November 13, 2004 |
| | | DEP ACCT USER ID | 02-2135 |